

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 15.09.2021

Version number 7 (replaces version 6)

Revision: 15.09.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: Tools Cleaner KL1590-1****UFI: JM00-T036-2004-F7UF****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture: Cleaner for tools**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Kalogeropoulos Chemicals S.A.

D. Gounari 35, 185 31

Pireaus, Greece

Tel: +30 2104124518

Fax: +30 2104101607

e-mail: info@kalochem.gr

website: www.kalochem.gr

1.4 Emergency telephone number: Τηλ. Κέντρου Δηλητηριάσεων 2107793777**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

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Hazard pictograms:

GHS02 GHS07 GHS08 GHS09

Signal word: Danger**Hazard-determining components of labelling:**

Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)
 tetrachloroethylene

Hazard statements:

H226 Flammable liquid and vapour.
 H351 Suspected of causing cancer.
 H336 May cause drowsiness or dizziness.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H304 May be fatal if swallowed and enters airways.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
 P201 Obtain special instructions before use.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Regulation (EC) No 648/2004 on detergents / Labelling for contents

aromatic hydrocarbons	≥30%
halogenated hydrocarbons	≥15 - <30%

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture: consisting of the following components.

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Ingredients according Regulation (EU) 2020/878:

CAS: 64742-82-1 EC number: 919-446-0 Index number: 649-330-00-2 Reg.nr.: 01-2119458049-33-XXXX	Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336, EUH066	≥80-<90%
CAS: 127-18-4 EINECS: 204-825-9 Index number: 602-028-00-4 Reg.nr.: 01-2119475329-XXXX	tetrachloroethylene ⚠ Carc. 2, H351; ⚠ Aquatic Chronic 2, H411	≥10-<25%

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing.

Wash contaminated clothing before use.

In case of skin irritation, consult a physician.

After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses and continue rinsing for several minutes

If symptoms persist, consult a doctor.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Do not induce vomiting; call for medical help immediately.

Never give anything by mouth to an unconscious person.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water jet**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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5.3 Advice for firefighters**Protective equipment:**

Firefighters must use SCBA and complete protective equipment, as the product may vaporize, break or explode violently at high temperatures.

Cool containers exposed to fire.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Avoid inhalation of vapors.

Avoid contact with spilled material.

Goggles and/ or face shield, if contact with eyes or splashes are anticipated.

Avoid contact with skin and eyes.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material

6.1.2 For emergency responders

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

Avoid splashes or spray in enclosed areas.

Handle with care. Avoid jolting, friction and impact.

Information about fire - and explosion protection:

Prevent impact and friction.

Prevent the creation of electrostatic charges

Protect against electrostatic charges.



Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool, well-ventilated area.

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Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store away from sources of ignition

Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from strong oxidizing agents.**Further information about storage conditions:**

Protect from heat and direct sunlight.

Keep away from children

7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 127-18-4 tetrachloroethylene**

WEL (Great Britain)	Short-term value: 275 mg/m ³ , 40 ppm Long-term value: 138 mg/m ³ , 20 ppm Sk
IOELV (EU)	Short-term value: 275 mg/m ³ , 40 ppm Long-term value: 138 mg/m ³ , 20 ppm Skin

DNELs

Tetrachlorethene | CasNo: 127-18-4.

DNEL/DMEL (workers)

Acute - systemic effects, inhalation: 275 mg/m³Acute - local effects, inhalation: 275 mg/m³

Long-term - systemic effects, dermal: 39,4 mg/kg bodyweight/day

Long-term - systemic effects, inhalation: 138 mg/m³

DNEL/DMEL (Consumers)

Acute - systemic effects, inhalation: 138 mg/kg bodyweight/day

Acute - local effects, inhalation: 138 mg/m³

Long-term - systemic effects, oral: 1,3 mg/kg bodyweight/day

Long-term - systemic effects, inhalation: 34,5 mg/m³

Long-term - systemic effects, dermal: 23 mg/kg bodyweight/day

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatic (2-25%) | CasNo: 64742-82-1.

workers:

acute systemic effects: 570 mg/m³ by inhalationlong-term systemic effects: 330 mg/m³ by inhalation

Long-term systemic effects: 44 mg/kg by skin contact

Consumers:

Acute systemic effects: 570 mg/m³ by inhalationlong-term systemic effects: 71 mg/m³ by inhalation

Long-term systemic effects: 26 mg/kg by skin contact

Long-term systemic effects: 26 mg/kg by ingestion

PNECs

Tetrachlorethene | CasNo: 127-18-4.

PNEC aqua (freshwater): 0,051 mg/l

PNEC aqua (marine water): 0,0051 mg/l

PNEC sediment (zoetwater): 0,903 mg/kg dwt

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PNEC sediment (marine water): 0,0903 mg/kg dwt

PNEC soil: 0,01 mg/kg dwt

PNEC sewage treatment plant: 11,2 mg/l

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****8.2.1. Appropriate engineering controls** Provide adequate ventilation.**Appropriate engineering controls** No further data; see item 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing.

Do not eat, drink or smoke while using the product.

Avoid swallowing the product.

Do not breathe vapours or mists.

Respiratory protection:

Half-face filter respirator: Type A filter material.

EN 136, 140 and 405 (respirator masks), EN 149 and 143 (filter recommendations).

For high airborne concentrations: Approved supplied-air respirator, operated in positive pressure mode.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Chemically resistant, protective work clothing (EN 14605) and boots.

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Environmental exposure controls

Dispose of flushing liquids in accordance with local and national regulations.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information**

Physical state	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	44 °C (ASTM D-93 mod.)
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined
pH	5.7-6.7
Viscosity:	
Kinematic viscosity	Not determined
Kinematic viscosity	
Dynamic:	Not determined
Solubility	
water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C:	0.82-0.84 g/ml
Relative density	Not determined
Vapour density	Not determined

9.2 Other information**Appearance:****Form:** Liquid**Important information on protection of health and environment, and on safety.****Auto-ignition temperature:** Not determined**Explosive properties:** Product does not present an explosion hazard.**Cloud point / clarification point:****Oxidising properties** Not considered as oxidising.**Evaporation rate** Not determined**Information with regard to physical hazard classes****Explosives** Void**Flammable gases** Void**Aerosols** Void

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Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	
Flammable liquid and vapour.	
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** Avoid heat, sparkles, naked flame or other sources of ignition.**10.5 Incompatible materials** Strong oxidizing agents**10.6 Hazardous decomposition products** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 64742-82-1 Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Oral | LD50 | >5,000 mg/kg (rat)

Dermal | LD50 | >2,000 mg/kg (rabbit)

CAS: 127-18-4 tetrachloroethylene

Oral | LD50 | 2,629 mg/kg (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity**

Carcinogen, Category 2

Suspected of causing cancer.

Reproductive toxicity Based on available data, the classification criteria are not met.**STOT-single exposure**

The product is classified as Specific Target Organ Toxicity after single exposure Category 3

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May cause drowsiness or dizziness.

STOT-repeated exposure

The product is classified as Specific Target Organ Toxicity after repeated exposure Category 1
 Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

The product is classified Aspiration toxicity Category 1
 May be fatal if swallowed and enters airways.

Additional toxicological information:**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

Tetrachlorethene | CasNo: 127-18-4.

EC50 (96h) > 500 mg/l (Pseudokirchn subcapitata)

NOEC (14d) 32 - 100 mg/kg (Eisenia foetida)

EC50 (48h) (στατικά) 6.1 - 9.0 mg/l (daphnia magna)

LC50 (96h) 12.4 - 14.4 mg/l (Pimephales promelas)

(CAS: 64742-82-1) Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Acute (Short-term) toxicity to fish

EC50(96h): 10-30 mg/l (Oncorhynchous mykiss)

Chronic (Long-term) toxicity to fish

NOEC(28d): 0.13 mg/l (Oncorhynchous mykiss, based on the growth rate)

Acute (Short-term) toxicity to aquatic invertebrates

EC50 (48h): 10-22 mg/l (daphnia magna)

Chronic (Long-term) toxicity to aquatic invertebrates

NOEC(21d): 0.28 mg/l (daphnia magna, based on reproduction)

Toxicity to aquatic algae and cyanobacteria

72-h EL50 = 4.1 and 4.6 - 10 mg/l, respectively.

72-h NOELR (for growth rate) = 0,76 και 0,22 mg/l, respectively

Toxicity to microorganisms:

Estimated protozoan, Tetrahymena pyriformis, 48-hr EL50 = 43.98 mg/l based on growth inhibition.

12.2 Persistence and degradability

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Persistence Assessment

The substance is readily biodegradable and therefore based on initial persistence screening is not expected to meet the Persistent (P) or very Persistent (vP) criteria.

Hydrolysis: The chemical constituents that comprise hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), consist entirely of carbon and hydrogen and do not contain hydrolysable groups. As such, they have a very low potential to hydrolyze. Therefore, this degradative process will not contribute to their removal from the environment.

Phototransformation in water and soil: This substance has not the potential to undergo photolysis in water and soil, and this fate process will not contribute to a measurable degradation of this substance from the environment.

Biodegradation

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in water: Readily biodegradable

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

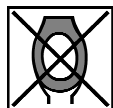
12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Empty containers may contain hazardous waste.

Do not remove the label on the packaging until it is cleaned.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN number or ID number****ADR, IMDG, IATA**

UN1300

14.2 UN proper shipping name**ADR**1300 TURPENTINE SUBSTITUTE,
ENVIRONMENTALLY HAZARDOUS
TURPENTINE SUBSTITUTE, MARINE
POLLUTANT**IMDG****IATA**

TURPENTINE SUBSTITUTE

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14.3 Transport hazard class(es)**ADR, IMDG**

Class 3 Flammable liquids.
Label 3

IATA

Class 3 Flammable liquids.
Label 3

14.4 Packing group
ADR, IMDG, IATA

III

14.5 Environmental hazards:

Environmental Hazardous
 Product contains environmentally hazardous
 substances: Hydrocarbons, C9-C12, n- alkanes,
 isoalkanes, cyclics, aromatics (2-25%)

Marine pollutant:

Yes
 Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

14.6 Special precautions for user Warning: Flammable liquids.
Hazard identification number (Kemler code): 30
EMS Number: F-E,S-E
Stowage Category A

14.7 Maritime transport in bulk according to IMO
instruments

Not applicable.

Transport/Additional information:**ADR**

Excepted quantities (EQ): E1
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

Transport category 3
Tunnel restriction code D/E

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GB

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IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":UN 1300 TURPENTINE SUBSTITUTE, 3, III,
ENVIRONMENTALLY HAZARDOUS**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
Regulation (EC) No.648/2004 on detergents, as amended.**Directive 2012/18/EU****Named dangerous substances - ANNEX I** Substance is not listed.**Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**National regulations:****Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment:

Has been performed for the main ingredients of the product.

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

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H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.


H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Department issuing SDS:

 SUSTCHEM S.A.
 REACH & Chemical Services Department
 A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece
 T: +30 210 8252510 | F: +30 210 8252575
 W: www.sustchem.gr | E: info@suschem.gr

Version number of previous version: 6**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

*** Data compared to the previous version altered.**

Classification, labelling according to Regulation 1272/2008/EC.